FIG. 1A

```
BAZ     SWPFLKLVSKIQ--VPDYYDIIKKPIALNIIREKVNKCEYKLASEFIDDIELMFSNCFEYN
TFIID   SWPFLKPVNKKQ--VKDYYTVIKRPMDLETIGKNIEAHRYHSRAEYLADIELIATNCEQYN
CCG1    TYPFHTPVNAKV--VKDYYKIITRPMDLQTLRENVRKRLYPSREEFREHLELIVKNSATYN
PCAF    AWPFMEPVKRTE--APGYYEVIRSPMDLKTMSERLKNRYYVSKKLFMADLQRVFTNCKEYN
CBP     SLPFRQPVDPQLLGIPDYFDIVKNPMDLSTIKRKLDTGQYQEPWQYVDDVWLMFNNAWLYN
```


FIG. 1B

```
BAZ      CKIC------------------------RKKGDAEN---MVLCDGCDRGHHTYCV--RPKLKTVPEGD-WFCPEC
U13646   CQIC------------------------KSMDGDE----MLVCDGCESGCHMECF-RPRMTKVPEGD-WFCQRC
RBBP2    CMFCG-----------------------RGNNEDK----LLLCDGCDDSYHTFCL--IPPLPDVPKGD-WRCPKC
MOZ.1    CSFCLG-----------------TKEQNREKKPEELISCADCGNSGHPSCLKFSPELTVRVKALRWQCIEC
MOZ.2    CSSCRD----------------------QGKNADN----MLFCDSCDRGFHMECC--DPPLTRMPKGM-WICQIC
p300     CEKCFNEIQGESVSLGDDPSQPQTTINKEQFSKRKNDTLDPELFVECTECGRKMHQICV--LHHEIIWPAG--FVCDGC
CBP      CEKCFTEIQGENVTLGDDPSQPQTTISKDQFEKKKNDTLDPEPFVDCKECGRKMHQICV--LHYDIIWPSG--FVCDNC
```

← 111 bp

FIG. 2A

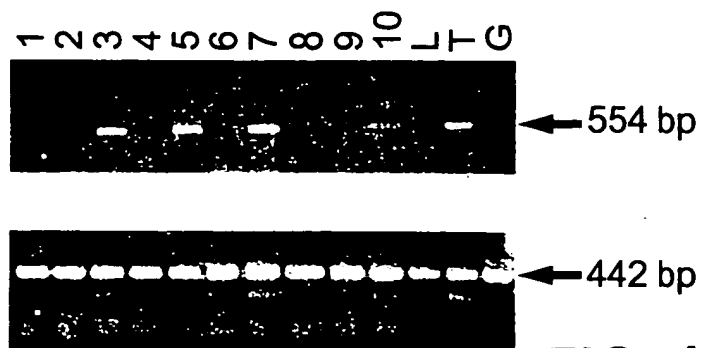| Position	Distance (cRays)
D14S835	8.8
D14S725	18.9
D14S730	5.6
BAZ	8.9
D14S75	12.1
D14S728	10.1
D14S872	

Chr 14

FIG. 2B

FIG. 3

FIG. 4A

FIG. 4B

FIG. 5
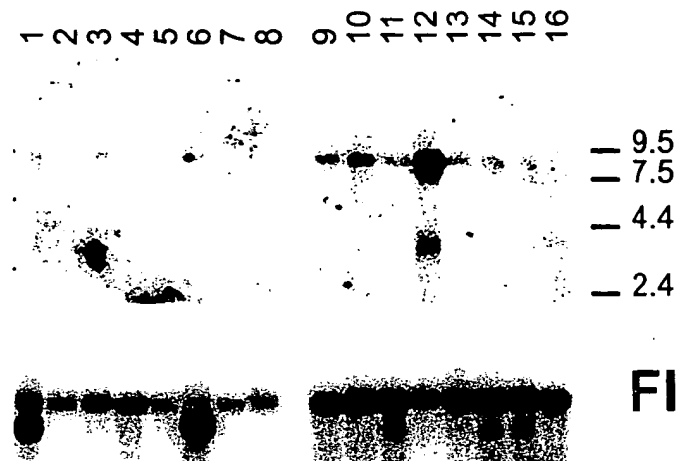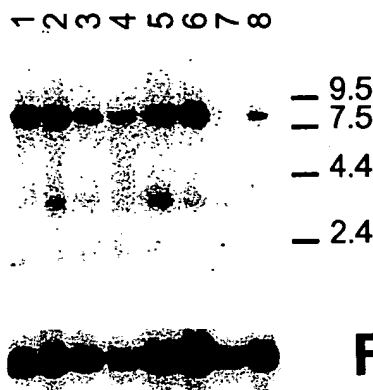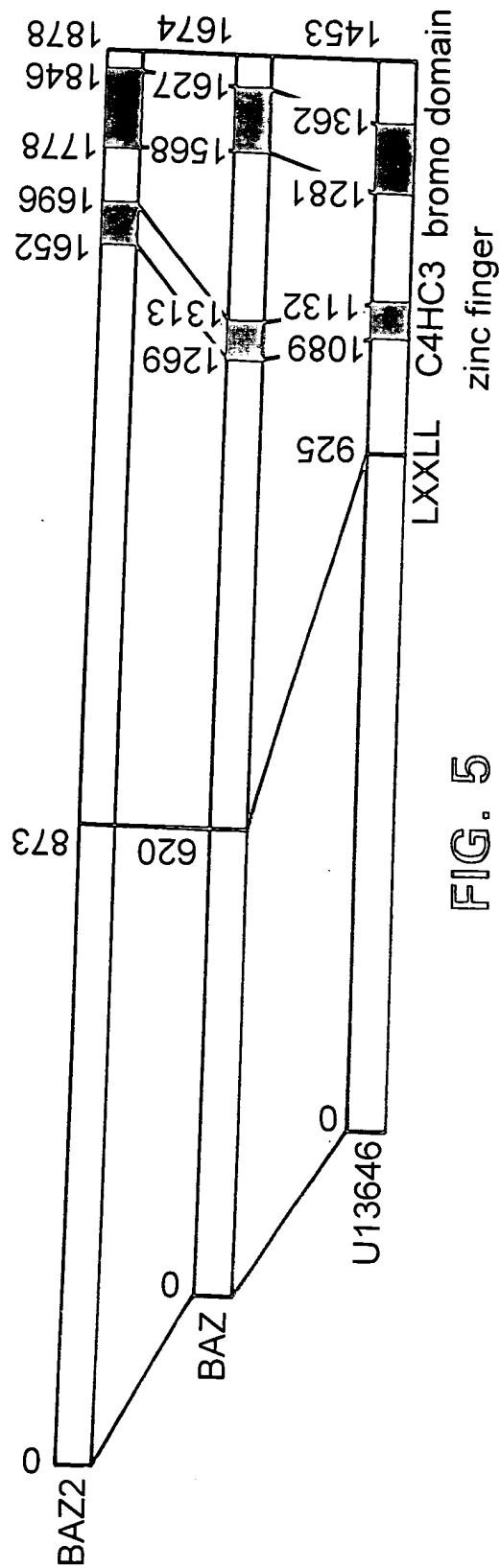
bromodomains

```
BAZ      SWPFLKLVSKIQV--PDYYDIKKPIALNIIREK----------------------------------------VNKCEYKLASEFIDDIELMFSNCFEYN
CCG      SWPFHHPVNKKFV--PDYYKVIVNPMDLETIRKN----------------------------------------ISKHKYQSRESFLDDVNLILANSVKYN
BAZ2     AWPFLEPVNPRLV--SGYRRIIKNPMDFSTMRER----------------------------------------LLRGGYTSSEEFAADALLVFDNCQTFN
PCAF     AWPFMEPVKRTEA--PGYYEVIRSPMDLKTMSER----------------------------------------LKNRYYVSKKLFMADLQRVFTNCKEYN
U13646   ALPFLEPVNPKLV--PGYKMIISKPMDLKTIRQKNEKLIVSETYQFCFFAIFDLKLKMKITQYETPEDFAEDIELMFANCRQFN
CBP      SLPFRQPVDPQLLGIPDYFDIVKNPMDLSTIKRK----------------------------------------LDTGQYQEPWQYVDDVWLMFNNAWLYN
```

FIG. 6A

C4HC3 Zn finger
```
         *  *                                          *  *  *        *        *

BAZ      CKIC------------------------------------------RKKGDAEN---MVLCDGCDRGHHTYCV--RPKLKTVPEGD-WFCPEC
U13646   CQIC------------------------------------------KSMDGDE---MLVCDGCESGCHMECF--RPRMTKVPEGD-WFCQRC
RBBP2    CMFCG-----------------------------------------RGNNEDK---LLLCDGCDDSYHTFCL--IPPLPDVPKGD-WRCPKC
MOZ.1    CSFCLG-----------------------------TKEQNREKKPEE---LISCADCGNSGHPSCLKFSPELTVRVKALRWQCIEC
MOZ.2    CSSCRD----------------------------------------QGKNADN---MLFCDSCDRGFHMECC--DPPLTRMPKGM-WICQIC
p300     CEKCFNEIQGESVSLGDDPSQPQTTINKEQFSKRKNDTLDPELFVECTECGRKMHQICVL--HHEIIWPAG--FVCDGC
BAZ2     CLVC------------------------------------------RKGDNDE--FLLLCDGCDRGCHIYCH--RPKMEAVPEGD-WFCTVC
```

FIG. 6B
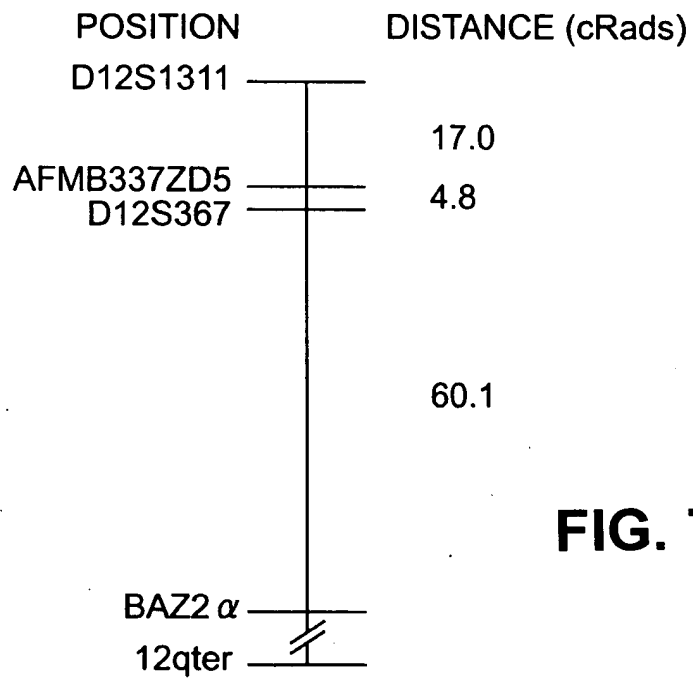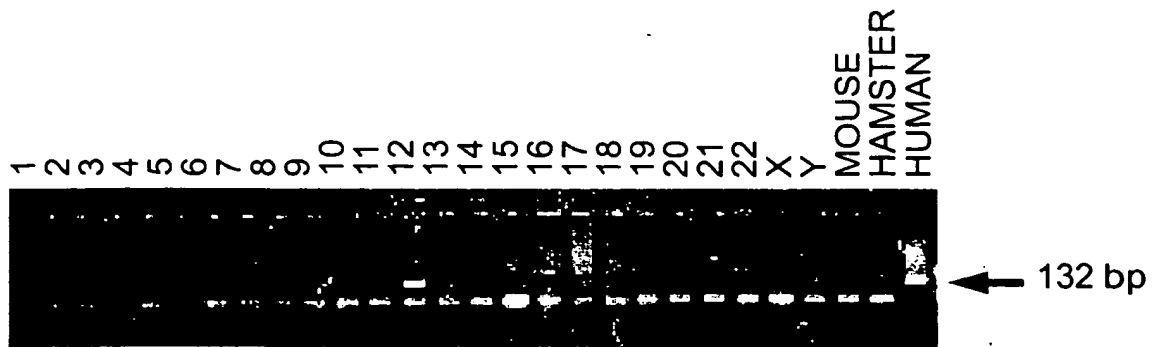
FIG. 7
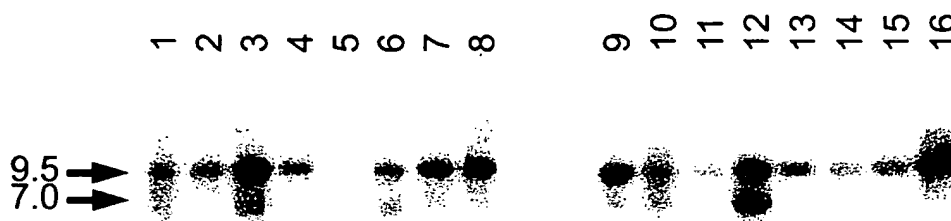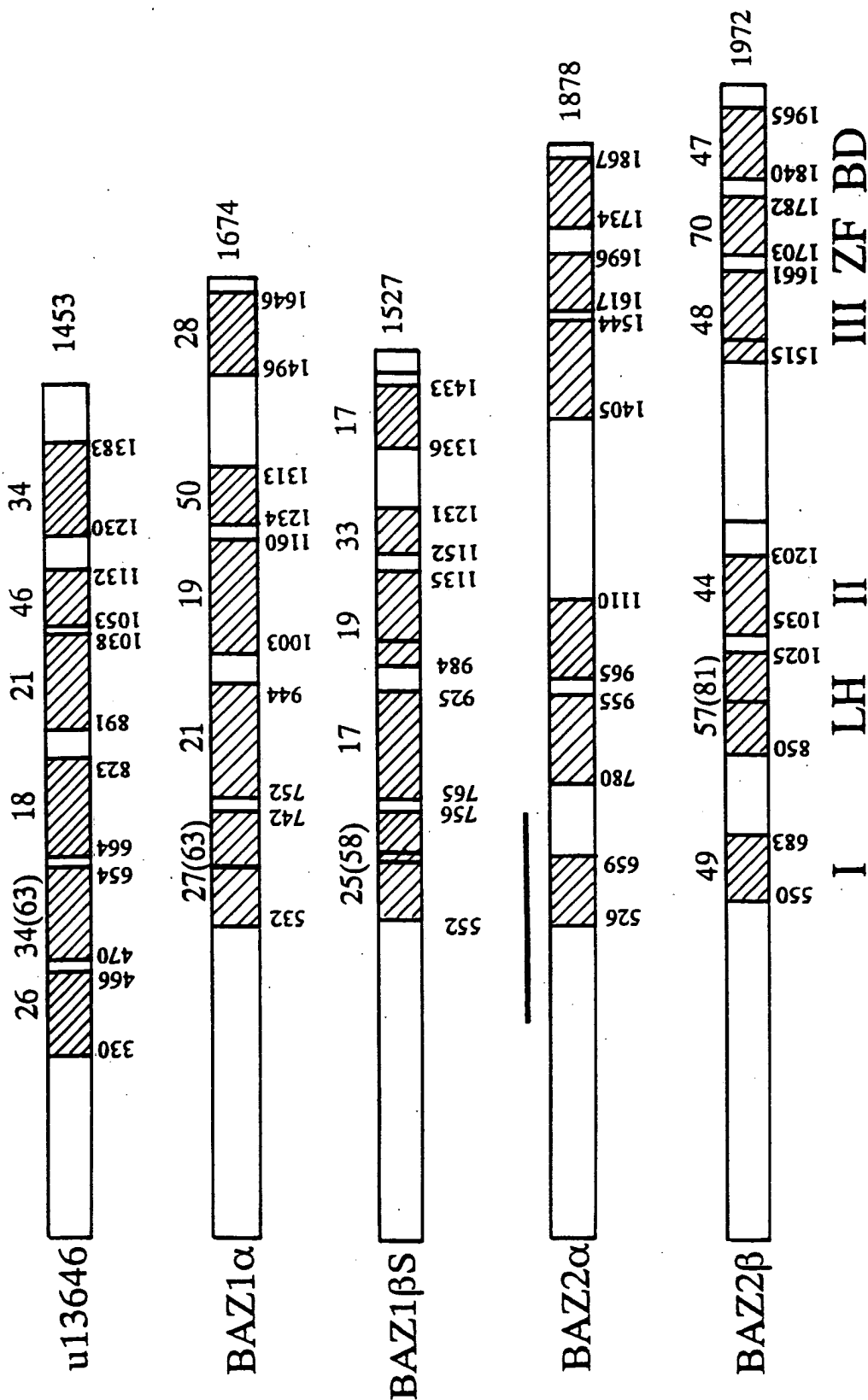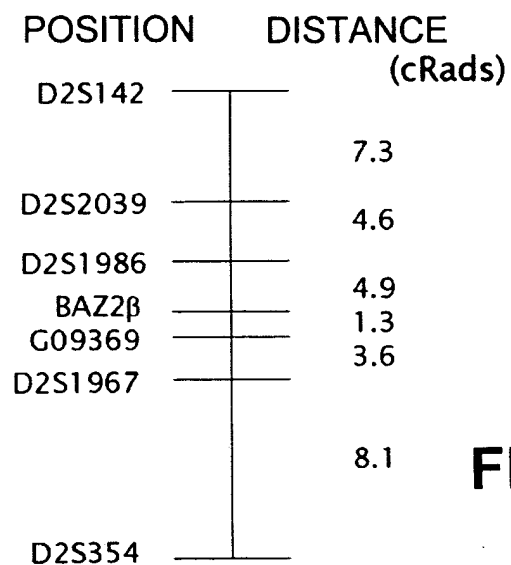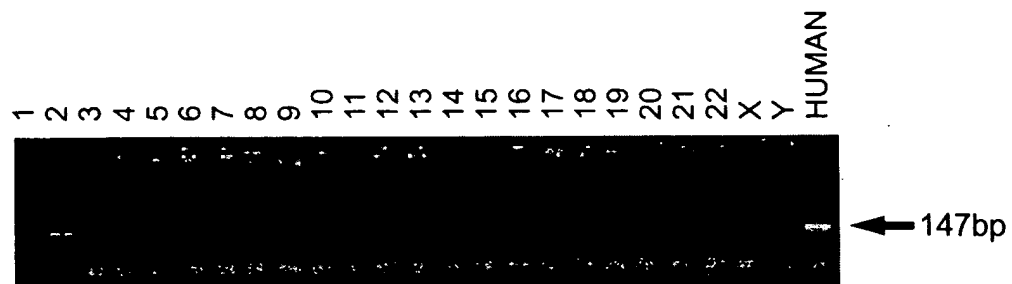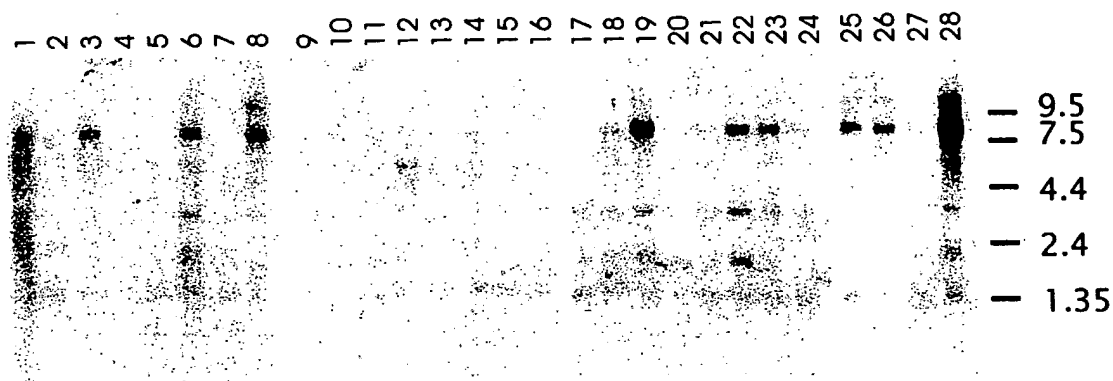
FIG. 8A

FIG. 8B

FIG. 9

baz1α   1   REEKRKYVEYLKQWSKPREDMEC..........DDLKELPEPTPVKTR.LPPEIFG
u13646 1   LNDEFTEELVHSQIMSNGVDE.CKIREREADDLLVNINDVRHLPDFSRIGNQCLSSQGFA
baz2α   1   LEERQKQQMILEEMKKPTEDM.C..........LTDHQPLPDFSRVPGLTLPSGAFS
baz2β   1   LEQRRLELEMAKELKKPNEDM.C..........LADQKPLPELPRIPGLVLSGSTFS

baz1α   46 DALMVLEFLNAFGEL..FDLQDEFPDGVTLEVLEEALVGN.DSEGHLCELLFFFLTAIFQ
u13646 60 DALMVHEFVQNFGHVLGIDLEI.APK..LESLCAGLDGDANHAEQTLQLTRQLLRLALE
baz2α   47 DCLTIVEFLHSFGKVLGFDPAKDVPS...LGVLQEGLLCQGDSLGEVQDLLVRLIKAALH
baz2β   47 DCLMVVQFLRNFGKVLGFDVNIDVPN...LSVLQEGLLNIGDSMGEVQDLLVRLLSAAVC

baz1α   103 AIAEEEEEVAKEQLTDADTKGCSLKSLDLDSCTLSEILRLHILASGADVTSANAKYRYQK
u13646 116 FPGM...GNEKRF......GQGGGEMGLDRENFSEVMRLFLIDKGKR.
baz2α   104 DPGFPSYCQSLKIL......GEKVSEIPLTRDNVSEILRCFLMAYGVE.
baz2β   104 DPGLITGYKAKTAL......GEHLLNVGVNRDNVSEILQIFMEAHCGQ.

baz1α   163 RGGFDATDDACMELRLSNPSIVKKLSSTSVYDLTPGEKMKILHALCGKL
u13646 154 ......GEELSQPLLTCNFLSISPEQKASILAFLCDEL
baz2α   146 ......PALCDRLRTQPFQAQPPQQKAAVLAFPVHEL
baz2β   146 ......TELTESLKTKAFQAHTPAQKASVLAFLINEL

FIG. 10

← 147bp

POSITION   DISTANCE
              (cRads)

D2S142

              7.3

D2S2039

              4.6

D2S1986

              4.9
BAZ2β
              1.3
G09369
              3.6
D2S1967

              8.1   **FIG. 11**

D2S354

— 9.5
— 7.5

— 4.4

— 2.4

— 1.35

FIG. 12

BAZ1βS   YPITAVSLMEALSADKGGFLYLNRVLVIL----LQTLLQDEIAEDYGELGMKLSEIPLTLHSVSE
          :: :: :: :: :: :: :: :: :: :: :   :: :: :: :: :: :: :: :: :: :: :: ::
BAZ1βL   YPITAVSLMEALSADKGGFLYLNRVLVILLQTLLQTLLQDEIAEDYGELGMKLSEIPLTLHSVSE

639   649   659   669   679   689
630   640   650   660   670   680   690

FIG. 13

```
BAZ1Bs    1    ......................................................
BAZ1A     1    ......................................................
BAZ2A     1    .......................................MEMEANEANDHFNFTGL
BAZ2B     1    ......................................................


BAZ1Bs    1    ......................................................
BAZ1A     1    ......................................................
BAZ2A    18    PPAPAASGLKPSPSSGEG......LYTNGSPMNF........PQQGKSLNGDVNVNGLS
BAZ2B     1    ......MGQTKSTSSGGGNRKCNQEQSKNQPLDARVDKIKDKKPRK.KAMESSSNSDSDS


BAZ1Bs    1    ......................................................
BAZ1A     1    ......................................................
BAZ2A    63    .TVSHTTTSGILNSAPHSSSTSHLHHPSVAYDCLWNYSQYPSANPGSNLKDPPLLSQFSG
BAZ2B    54    GTSSDTSSEGI.....SSSDSDDLEEDEEEEDQSIEESEDDDSDSESEAQHK......SN


BAZ1Bs    1    ......................................................
BAZ1A     1    ......................................................
BAZ2A   122    GQYPLNGILGGSRQPSSPSHNTNLRAGSQKFWANGTHSPMGLNFDSQELYDSFPDQNFE.
BAZ2B   103    NQVLLHGI....SDPKADGQKATEKAQEKRI.....HQPLPLAFESQT..HSFQSQQKQP


BAZ1Bs    1    ......................................................
BAZ1A     1    MEDASESSRGVAPLINNVVLPGSPLSLPVSVTGCKSHRVANKKVEARSEKLLPTALPPSE
BAZ2A   181    EVCSGIHP........DEAAEKEMTSVVAENGTGLVCSLE....LEEEQPELKMCGYNGS
BAZ2B   152    QVLSQQLPFIFQSSQAKEESVNKHTSVI..QSTGLVSNVKPLSLVNQAKKETYM......


BAZ1Bs    1    ......................................................
BAZ1A    61    PKVDQKLPRSSERRGSGGGTQFPARSRAVAAGEAAARGAAGPERGSPLGRRVSPRCLCSG
BAZ2A   229    VPSVESLHQEVSVLVPDPTVSCLDDPSHLPDQLEDTPILSED...SLEPFNSLAPEPVSG
BAZ2B   204    ..........KLIVPSPDVLKAGNK....NTSEESSLLTSELRSKREQYKQAFP.....


BAZ1Bs    1    ........................MAPLLGRKPFPLVNPLPGEEPF...FTIPHT
BAZ1A   121    EGGQVAVGVIAGKRGRRGRDGSRRAPGGREMPLLHRKPFVRQKPPADLRPDEEVFYCKVT
BAZ2A   286    GLYGIDDTELMGAEDKLPLEDSPVISALDCPSLNNATAFSLLADDSQTSTSIFASP.TSP
BAZ2B   244    ...:...SQLKKQESSKSLK..KVIAALSNPKATSSSP....AHPKQTLENNHPNPFLTN


BAZ1Bs   29    QEAFRTREEYEARLERYSERIWTCKSTGSSQLTHKEAWEEEQEVAELLKEEFPAWYEKLV
BAZ1A   181    NEIFRHYDDFFERTILCNSLVWSCAVTGRPGLTYQEALESEKKARQNLQS.FP...EPLI
BAZ2A   345    PVLG........ESVLQDNSFDLNNGSDAEQEEMETQSSDFPPSLTQPAPDQSSTIQLHP
BAZ2B   291    ALLGNHQPNGVIQSVIQEAPLALTTKTKMQSKINENIAAASSTPFSSPV.NLSTSGRRTP


BAZ1Bs   89    LEMVHHNTAS....LEKLVDTAWLEIMTKYAVGEECDFEVGKEKMLKVKIVKIHPLEKVD
BAZ1A   237    IPVLYLTSLTHRSRLHEICDDIFAYVKDRYFVEETVEVIRNNGARLQCTILEVLP.....
BAZ2A   397    ATSPAVSPTTSPAVSLVVSPAASPEISPEVCPAASTVVSPAVFSVV..............
BAZ2B   350    GNQTPVMPSASPILH...SQGKEKAVSNNVNPVKTQHHSHPAKSLVEQFRGTDSDIPSSK
```

FIG. 14

```
BAZ1Bs 145 EEATEKKSDGACDSPSSDKENSSQIAQDHQKK...ETVVKEDEGRRESINDRARRSPRKL
BAZ1A  292 ..............PS....HQNGFANGHVNSVDGETIIISDSDDSETQS.........
BAZ2A  443 ..........................................................
BAZ2B  407 DSEDSNEDEEEDDEEEDEEDDEDDESDDSQSESDSNSESDTEGSEEEDDDDKDQDESDSD

BAZ1Bs 202 PTSLKKGERKWAPPKFLPHKYDVK.LQNEDKIISNVPADSLIRTERPPNKEIVRYFTRHN
BAZ1A  324 .CSFQNGKKKDAIDPLL.FKYKVQPTKKELHESAIVKATQISRRKHLFSRDKLKLFLKQH
BAZ2A  443 ..........SPASSAVLPAVSLEVPLTASVTSPKASPVTSPAAAFP.TASPANKDVSS
BAZ2B  467 TEGEKTSMKLNKTTSSVKSPSMSLTGHSTPRNLHIAKAPGSAPAALCSESQSPA......

BAZ1Bs 261 ALRAGTGENAPWVVEDELVKKYSLPS......KFSDFLLDPYKYMTLNPSTKRKNTGSPD
BAZ1A  382 C......EPQEGVIK...IKASSLSTYKIAEQDFSYFFPDDPPTFIFSPANRRR..GRPP
BAZ2A  491 FLETTADVEEITGEGLTASG.SGDVMRRRIATPEEVRLPLQHGWRREVRIKKGSHRWQGE
BAZ2B  521 FLGTSSST.......LTSSPHSGTSKRRRVTDERELRIPLEYGWQRETRIRNFGGRLQGE

BAZ1Bs 315 RKPSKKSKTDNSSLSSPLNPKLWCHVHLKKSLSGSPLKVKNSKNSKSPEEHLEEMMKMMS
BAZ1A  431 KRI.HISQEDN..............VANKQTLA.......SYRSKATKER........
BAZ2A  550 TWYYGPCGKRMKQFPEVIKYLSRNLVHSVRREHFSFSPRMPVGDFFEERDTPEGLQWVQL
BAZ2B  574 VAYYAPCGKKLRQYPEVIKYLSRNGIMDISRDNFSFSAKIRVGDFYEARDGPQEMQWCLL

BAZ1Bs 375 PNKLHTNFHIPKKGPPAKKPGKHSDKPLKAKGRSKGILNGQKSTGNSKSPKKGLKTPKTK
BAZ1A  459 ..........................DKLLK.................QEEMKSLAFEKAK
BAZ2A  610 SAEEIPSRIQAITGKRGRPRNTEKAKTKEVPKVKRGRGRPPKVKITELLNKTDNRPLKKL
BAZ2B  634 KEEDVIPRIRAMEGRRGRPPNPDRQRAREESRMRRRKGRPPNVGNAEFLDNADAKLLRKL

BAZ1Bs 435 MKQMTLLDMAKGTQKMTRAPRNSGGTPRTSSKPHKHLPPAALHLIAYYKENKDREDKRSA
BAZ1A  477 LKR..................................EKADALEAKKKEKEDKEKKR..
BAZ2A  670 EAQET...........LNEEDKAKIAKSKKKMR......QKVQRGECLTTIQGQARNKR
BAZ2B  694 QAQEIARQAAQIKLLRKLQKQEQARVAKEAKKQQAIMAAEEKRKQKEQIKIMKQQEKIKR

BAZ1Bs 495 LSCVISKTARLLSSEDRARLPEELRSLVQKRYELLEHKKRWASM................
BAZ1A  500 ......................EELKKIVEEER..........L...............
BAZ2A  712 KQETKSLKHK......EAKKKSKAEKEKGKT..KQEKLKEK.........VKREKKEKVK
BAZ2B  754 IQQIRMEKELRAQQILEAKKKKKEEAANAKLLEAEKRIKEKEMRRQQAVLLKHQERERRR

                      L          L           L L            L
BAZ1Bs 539 ...........SEEQRKEYLKKKREELKKKLKEKAKERREKEMLERLEKQKR.YEDQEL
BAZ1A  512 ...........KKKEEKERLKVEREKEREKLREE.....KRKYVEYLKQWSKPREDMEC
BAZ2A  755 M..........KEKEEVTKAKPACKADK.TLATQRRLEERQKQQMILEEMKKPTEDMCL
BAZ2B  814 QHMMLMKAMEARKKAEEKERLKQEKRDEK.RLNKERKLEQRRLELEMAKELKKPNEDMCL

                  L          L L         L         L        LL          L    L   LL
BAZ1Bs 586 TG.KNLPAFRLVDTPEGLPNTLFGDVAMVVEFLSCYSGLLLPDAQYP...ITAVSLMEAL.
BAZ1A  555 DDLKELPEPTPVKT..RLPPEIFGDALMVLEFLNAFGELFDLQDEFPDGVTLEVLEEALV
BAZ2A  803 TDHQPLPDFSRVPGLT.LPSGAFSDCLTIVEFLHSFGKVLGFDPAK.DVPSLGVLQEGLL
BAZ2B  873 ADQKPLPELPRIPGLV.LSGSTFSDCLMVVQFLRNFGKVLGFDVNI.DVPNLSVLQEGLL
```

FIG. 15

```
                     LXXLL     L    LXXLLXXLL
BAZ1Bs  642  S.ADKGG......FLYLNRVLVILLQTLLQDEIAE....DYGELGMKLSEIPLTLHSVSE
BAZ1A   613  G.NDSEGPLCELLFFFLTAIFQAIAEE..EEEVAKEQLTDADTKGCSLKSLDLDSCTLSE
BAZ2A   861  CQGDSLGEVQDL........LVRLLKAALHDPGFPSYCQSLKILGEKVSEIPLTRDNVSE
BAZ2B   931  NIGDSMGEVQDL........LVRLLSAAVCDPGLITGYKAKTALGEHLLNVGVNRDNVSE


                L  L                                    L    L       L
BAZ1Bs  691  LVRLCLRRSDVQEESEGSDTD.......DNKDSAAFEDNEVQDEFLEKLETSEFFELTSE
BAZ1A   670  ILRLHILASGADVTSANAKYRYQKRGGFDATDDACMELRLSNPSLVKKLSSTSVYDLTPG
BAZ2A   913  ILRCFLMAYGVE.....................PALCDRLRTQPFQAQPPQ
BAZ2B   983  ILQIFMEAHCGQ.............................TELTESLKTAFQAHTPA


              L  L    LL
BAZ1Bs  744  EKLQILTALCHRILMTYSVQD.................HMETRQQMSAELWKER
BAZ1A   730  EKMKILHALCGKLLTLVSTRDFIEDYVDILRQAKQEFRELKAEQHRKEREEAAARIRKRK
BAZ2A   943  QKAAVLAFPVHELNGSTLIINEIDKTLESM...........SSYRKNKWIVEGRLRR..
BAZ2B  1013  QKASVLAFLINELACSKSVVSEIDKNIDYM...........SNLRRDKWVVEGKLRK..


BAZ1Bs  781  LAVLKEENDKKRAEKQKRKEMEAKNKENGKVENGLGKTDRKKRIVKFEPQVDTEA....E
BAZ1A   790  EEKLKEQEQKMKEKQEKLKEDEQRNS...TADISIGEEEREDFDTSIESK.DTEQKELDQ
BAZ2A   989  ...LKTVLAKRTGRSE....VEMGRPEECLG.......RRRSSRIM.E.........ETS
BAZ2B  1059  ...LRIIHAKKTGKRDTSGGIDLGEEQHPLGTPTPGRKRRRKGGDS.DYDDDDDDDSDDQ


BAZ1Bs  837  DMI........SAVKSRRLLAIQAK.KEREIQEREMKV..KLERQAEEERIRKHKAAAEK
BAZ1A   846  DMFTEDEDDPGSHKRGRRGKRGQNGFKEFTRQEQINCVTRELLTADEEEALKQEHQRKEK
BAZ2A  1025  GMEEEEEEESIAAVPGRRGR..RDGE.....VDATASSIPELERQIEKLSKRQLF.....
BAZ2B  1115  GDEDDEDEEDKEDQKGKKTDICEDED.....EGDQAASVEELEKQIEKLSKQQSQ.....


BAZ1Bs  886  AFQEGIAKAKLVMRRTPIGTDRNHNRYWLFSDEVPGLFIEK...GWV.HDSIDYRFNHHC
BAZ1A   906  ELLEKIQSAIACTNIFPLGRDRMYRRYWIFPS.IPGLFIEEDYSGLT.EDMLLPRPSSF.
BAZ2A  1073  .FRKKLLHSSQMLRAVSLGQDRYRRRYWVLPY.LAGIFVEGTEGNLVPEEVIKKETDSLK
BAZ2B  1165  .YRRKLFDASHSLRSVMFGPDRYRRRYWILPR.CGGIFVEGMESGEGLEE.IAKEREKLK


                                                                   LXXLL
BAZ1Bs  942  KDHTVSGDEDYCPRSKKANLGKNASMNTQHGTATE......................
BAZ1A   963  QNNVQSQDPQVSTKTGEPLMSESTS.NIDQGPRDH......................
BAZ2A  1131  VAAHASLNPALFSMKMELAGSNTTASSPARARSRP.LKTKPG...FMQ.PRHFKSPVRGQ
BAZ2B  1222  KAESVQIKEEMF....ETSGDSLNCSNTDHCEQKEDLKEKDNTNLFLQKPGSFSKLSKLL


BAZ1Bs  977  .......................................................
BAZ1A   997  .......................................................
BAZ2A  1186  DSEQPQAQLQPEAQLHVPAQPQPQLQLQLQSHKGFLEQEGSPLSLGQSQHDLSQSAFLSW
BAZ2B  1278  EV....AKMPPESEVMTP.KPNAGANGCTLSY.....QNSGKHSLGSVQSTATQSN....


BAZ1Bs  977  .......................................................
BAZ1A   997  .......................................................
BAZ2A  1246  LSQTQSHSSLLSSSVLTPDSSPGKL.DPAPSQPPEEPEPDEAESSPDLQAFWFNISAQMP
BAZ2B  1324  VEKADSNNLFNTGS.....SGPGKFYSPLPNDQLLKTLTEKNRQ.......WFSLLPRTP
```

FIG. 16

```
BAZ1Bs  977  ..................................................
BAZ1A   997  ..................................................
BAZ2A  1305  CNAAP.......TPPLAVSEDQP.....TPSPQQLASSKPMNRPSAANPC..SPVQFSS.
BAZ2B  1372  CDDTSLTHADMSTASLVTPQSQPPSKSPSPTPAPLGSS..AQNPVGLNPFALSPLQVKGG


BAZ1Bs  977  ..................................................
BAZ1A   997  ..................................................
BAZ2A  1350  TPLAGLAPKRRAGDPG............EMPQSPTGLGQPKRRGRPPSKFFKQMEQRYLTQ
BAZ2B  1430  VSMMGL...QFCGWPTGVVTSNIPFTLSVPSLGSGLGLSEGNG..........NSFLTS

                                                             LXXLL
BAZ1Bs  977  ..............................VAVETTTPKQGQNLWFLCDSQKELDELL
BAZ1A   997  ..............................SVQLPKPVHKPNRWCFYSSCEQLDQLI
BAZ2A  1399  LTA.........................QPVPPEMCSGWWWIPDPEMLDAML
BAZ2B  1476  NVASSKSESPVPQNEKATSAQPAAVEVAKPVDFPSPKPIPEEMQFGWWRIIDPEDLKALL


BAZ1Bs 1005  NCLHPQGIRESQLKERLEKRYQDIIHSI........HLARKPNLGLKS............
BAZ1A  1024  EALNSRGHRESALKETLLQEKSRICAQLARFSEEKFHFSDKPQPDSKPTYSRGRSSNAYD
BAZ2A  1426  KALHPRGIREKALHKHLNK..............HRDFLQEVCLRPS......ADPIF
BAZ2B  1536  KVLHLRGIREKALQKQIQK..............HLDYITQACLKNK......DVAII


BAZ1Bs 1045  ....CDGNQELLNFLRSDLIEVATRLQKGGLGYVEETSEFEARVISLEKLKDFGECVIAL
BAZ1A  1084  PSQMCAEKQLELR.LRDFLLDIEDRIYQGTLGAIKVTDRHIWR.................
BAZ2A  1463  EPRQLPAFQ...EGIMSW..SPKEKTYETDLAVLQWVEELEQRVIMSDLQIRGWTCPSPD
BAZ2B  1573  ELNENEENQVTRDIVENW..SVEEQAMEMDLSVLQQVEDLERRVASASLQVKGWMCPEPA


BAZ1Bs 1101  QASVIKKFLQGFMAPKQKRR...KLQSEDSAKTEEVDEEKKMVEEAKV...........
BAZ1A  1126  ..SALESGRYELLSEENKENGIIKTVNED.VEEMEIDEQTKVIVKDRLLGIKTETPSTVS
BAZ2A  1518  ST.......REDLAYCEHLSDSQ....EDITWRGPGREGL.APQRKTTNPLDLAVMRLAA
BAZ2B  1631  SE.......REDLVYFEHKSFTKLCKEHDGEFTGEDESSAHALERKSDNPLDIAVTRLAD


BAZ1Bs 1146  .............................ASALEKWKTAIREAQ
BAZ1A  1183  TNASTPQSVSSVVHYLAMALFQIEQGIERRFLKAPLDASDSGRSYKTVLDRWRESLLSSA
BAZ2A  1566  LEQNVKRRYLREPLWPTHEVVLEKALLSTPNGAPEGTTTEISYEITPRIRIWRQTLQRCR
BAZ2B  1684  LERNIERR...........................IEEDIAPGLRVWRRALSEAR

                          C   C               C   C       H   C
BAZ1Bs 1161  TFSRMHVLLGMLDACIKWDMSAENARCKVCPKKGEDDKLILCDECNKAFHLFCLRPALYE
BAZ1A  1243  SLSQVFLHLSTLDRSVIWSKSILNARCKICRKKGDAENMVLCDGCDRGHHTYCVRPKLKT
BAZ2A  1626  SAAHVCLCLGHLERSIAWEKSVNKVTCLVCRKGDNDEFLLLCDGCDRGCHIYCHRPKMEA
BAZ2B  1712  SAAQVALCIQQLQKSIAWEKSIMKVYCQICRKGDNEELLLLCDGCDKGCHTYCHRPKITT

               C   C
BAZ1Bs 1221  VPDGEWQCPACQPAT.ARRNS.RGRNYTE.ESASEDS...EDDESDEEEEEEEEEEE..
BAZ1A  1303  VPEGDWFCPECRPKQRCRRLSFRQRPSLESDEDVEDSMGGEDDEVDGDEEEGQSEEEEYE
BAZ2A  1686  VPEGDWFCTVC..........................................
BAZ2B  1772  IPDGDWFCPAC..........................................
```

FIG. 17

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BAZ1Bs1273 ........EDYEVAGLRLR.......PRKTIRGKHSVIPPAARSGRRPGKKPHSTRRSQP
BAZ1A 1363 VEQDEDDSQEEEEVSLPKRGRPQVRLPVKT.RGKLSSSFSSRGQQQEPGRYPSRSQQSTP
BAZ2A 1697 ...............LAQ...........QVEGEFT.............QKPGFPKRGQK
BAZ2B 1783 ...............IAKASGQTLKIKKLHVKG................KKTNESKKGKK


BAZ1Bs1318 K...............APPVDDAEVDELVLQTK..........................
BAZ1A 1422 KTTVSSKTGRSLRKINSAPPT...ETKSLRIASRSTRHSHGPLQADVFVELLSPRRKRRG
BAZ2A 1718 ...........RKSGYSLNFSEGDGRR...............................
BAZ2B 1812 VTLTGDTEDEDSASTSSSLKRGNKDLQK..............................


BAZ1Bs1336 ..........................................................
BAZ1A 1479 RKSANNTPENSPNFPNFRVIATKSSEQSRSVNIASKLSLQESESKRRCRKRQSPEPSPVT
BAZ2A 1734 ................RRVLLKGRESPAAGPRYSEERLSPSKRRRLSMRNHHS......
BAZ2B 1840 ................RKM.....EENTSINLSKQESFTSVKKPK...RDDSK......


                                          Bromodomain motif
                                          _____
BAZ1Bs1336 ...RSSRRQS..LELQKCEEILHKIVKYRFSWPFREPVTRDEAEDYYDVITHPMDFQTVQ
BAZ1A 1539 LGRRSSGRQGGVHELSAFEQLVVELVRHDDSWPFLKLVSKIQVPDYYDIIKKPIALNIIR
BAZ2A 1771 ...........DLTFCEIILMEMESHDAAWPFLEPVNPRLVSGYRRIIKNPMDFSTMR
BAZ2B 1869 ...........DLALCSMILTEMETHEDAWPFLLPVNLKLVPGYKKVIKKPMDFSTIR


_____                    LXXL
BAZ1Bs1391 NKCSCGSYRSVQEFLTDMKQVFTNAEVYNCRGSHVLSCMVKTE...........QCLVVL
BAZ1A 1599 EKVNKCEYKLASEFIDDIELMFSNCFEYNPRNTSEAKAGTRLQAFEH......IQAQKLG
BAZ2A 1818 ERLLRGGYTSSEEFAADALLVFDNCQTFNEDDSEVGKAGHIMRRFFESRWEEFYQGKQAN
BAZ2B 1916 EKLSSGQYPNLETFALDVRLVFDNCETFNEDDSDIGRAGHNMRKYFEKKWTDTFKVS...


           L
BAZ1Bs1440 LH......KHLPGHPYVRRKRKKFPDRLAEDEGDSEPEAVGQSRDEDRRSREAEIQEWLQ
BAZ1A 1653 LHVTPSNVDQVSTPPAAKKSRI....................................
BAZ2A 1878 L.........................................................
BAZ2B 1973 ..........................................................


BAZ1Bs1494 DTSLYSAKINSKDHNCFMMLVNTQFCMALTDTVT
BAZ1A 1675 ..................................
BAZ2A 1879 ..................................
BAZ2B 1973 ..................................
```
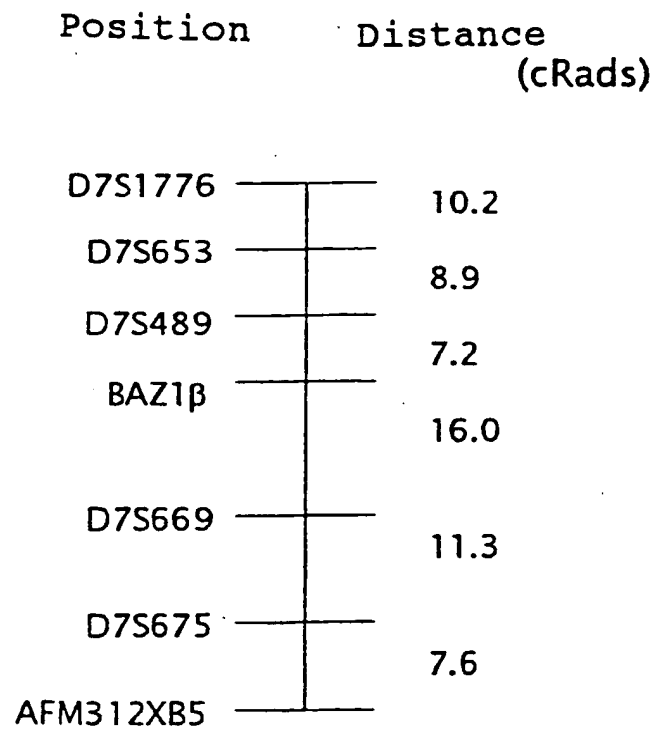
FIG. 18

FIG. 19A

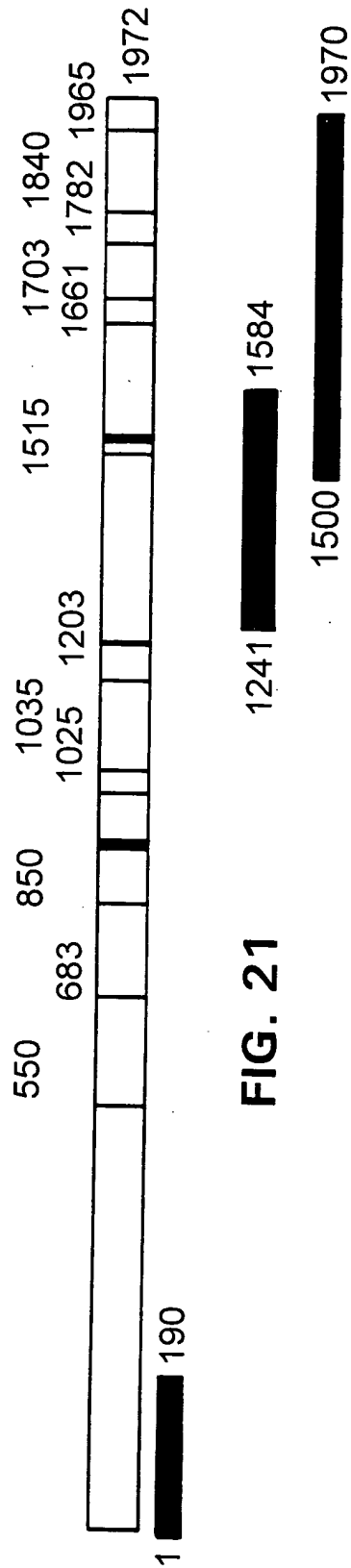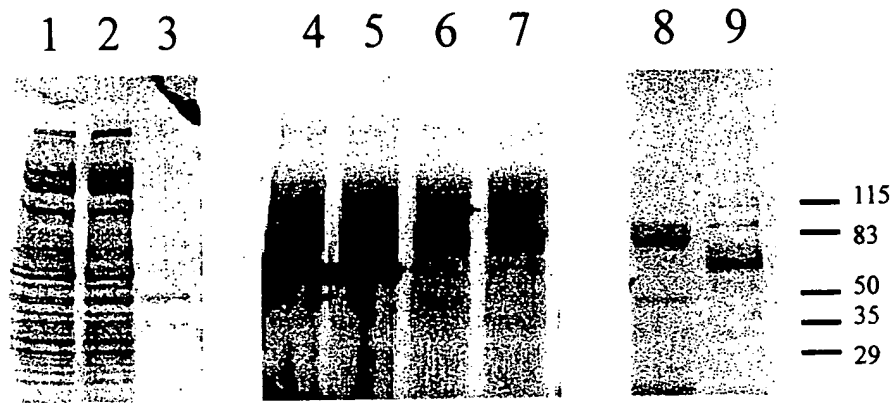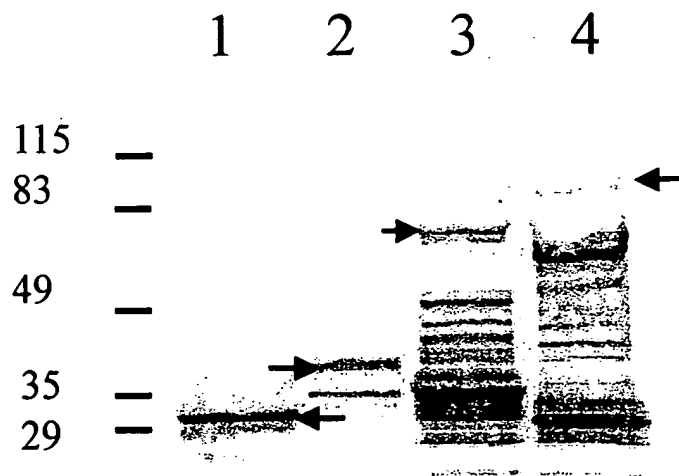| Position	Distance (cRads)
D7S1776	10.2
D7S653	8.9
D7S489	7.2
BAZ1β	16.0
D7S669	11.3
D7S675	7.6
AFM312XB5	

FIG. 19B

← 7.5 kb

FIG. 20A

FIG. 20B

FIG. 21

FIG. 22

FIG. 23